AMENDMENTS TO CLAIMS:

Kindly amend the claims as follows:

Claims 1-29 are cancelled.

30. A fuel cell comprising

- an electrolyte provided with electrodes in the form of an anode and a cathode on opposite sides of the electrolyte, and

- a system of flow ducts arranged so as to bring a first flow containing a first reactant into contact with an anode active surface and to bring a second flow containing a second reactant into contact with a cathode active surface, wherein the system of flow ducts comprises a distribution arrangement adapted to distribute a flow incoming to at least one of the anode active surface and the cathode active surface uniformly over an inlet region which extends along the at least one of the anode active surface and the cathode active surface.

31. (New) The fuel cell as claimed in claim 30, wherein the inlet region extends along at least approximately half of an extent of the at least one of the anode active surface and the cathode active surface.

32. (New) The fuel cell as claimed in claim 30, wherein the inlet region is located adjacent to a delimitation of the at least one of the anode active surface and the cathode active surface.

33. (New) The fuel cell as claimed in claim 30, wherein the system of flow ducts comprises a collecting arrangement adapted to allow a flow outgoing from the at least one of the anode active surface and the cathode active surface to leave the at least one of the anode active surface and the cathode active surface within an outlet region which extends along at least half of the at least one of the anode active surface and the cathode active surface.

34. (New) The fuel cell as claimed in claim 33, wherein the outlet region is located adjacent to a delimitation of the at least one of the anode active surface and the cathode active surface opposite the inlet region.

35. (New) The fuel cell as claimed in claim 33, wherein the inlet region and the outlet region are substantially parallel to one another.

36. (New) The fuel cell as claimed in claim 33, wherein the collecting arrangement comprises

- a collecting chamber which extends along the at least one of the anode active surface and the cathode active surface, and

- at least one outlet opening which allows flow from the at least one of the anode active surface and the cathode active surface to the collecting chamber, the at least one outlet opening defining the outlet region.

37. (New) The fuel cell as claimed in claim 30, wherein the distribution arrangement comprises

- a distribution chamber which extends along the at least one of the anode active surface and the cathode active surface, and

- at least one inlet opening which allows flow from the distribution chamber to the at least one of the anode active surface and the cathode active surface, the at least one inlet opening defining the inlet region.

38. (New) The fuel cell as claimed in claim 37, wherein the at least one inlet opening provides greater flow resistance than through the distribution chamber.

39. (New) The fuel cell as claimed in claim 37, wherein the active surface extends essentially in a first plane and wherein the distribution chamber extends essentially in a second plane, which second plane is essentially parallel to the first plane and is located at a distance from the first plane, and wherein the distribution chamber extends at least partly over a region to which, in the first plane, the at least one of the anode active surface and the cathode active surface corresponds.

40. (New) The fuel cell as claimed in claim 37, wherein the fuel cell is formed of a layer structure comprising

- a first layer in which the at least one of the anode active surface and the cathode active surface is located,

- a second layer provided with the at least one inlet opening, and

- at least one further layer, where the second layer is located between the first layer and the at least one further layer, the second layer and the at least one further layer at least partly defining limiting surfaces for the distribution chamber.

41. (New) The fuel cell as claimed in claim 40, wherein the distribution chamber comprises at least partly a cavity in the second layer.

42. (New) The fuel cell as claimed in claim 40, wherein the distribution chamber comprises at least partly a cavity in the at least one further layer.

43. (New) The fuel cell as claimed in claim 40, wherein

- the at least one further layer comprises a third layer and a fourth layer,

- the distribution chamber comprises at least partly a through-cutout in the third layer,

- the second layer at least partly defines a limiting surface for the distribution chamber in one direction, and

- the fourth layer at least partly defines a limiting surface for the distribution chamber in a direction opposite the one direction.

44. (New) The fuel cell as claimed in claim 43, wherein the third layer comprises at least one distribution chamber, at least one collecting chamber and at least one cooling chamber.

45. (New) The fuel cell as claimed in claim 44, wherein the second layer at least partly defines a delimitation for the distribution chamber, the collecting chamber and the cooling chamber in one direction, and wherein the fourth layer at least partly defines a delimitation for at least the distribution chamber and the collecting chamber in another direction.

46. (New) The fuel cell as claimed in claim 45, wherein the distribution chamber and the collecting chamber in the third layer are intended for the first flow, and wherein the fuel cell comprises a fifth layer provided with a second distribution chamber and a second collecting chamber, which second chambers are intended for the second flow.

47. (New) The fuel cell as claimed in claim 40, wherein the second layer at least partly defines a delimiting surface in a cell space at the at least one of the anode active surface and the cathode active surface, and wherein the second layer at least partly defines a delimitation between the cell space and the distribution chamber, and wherein the second layer is provided with at least one opening, which at least one opening allows communication between the distribution chamber and the cell space and forms the at least one inlet opening.

48. (New) The fuel cell as claimed in claim 47, wherein the second layer is located at a distance from the at least one of the anode active surface and the cathode active surface.

49. (New) The fuel cell as claimed in claim 48, wherein the cell space is provided with a conductor adapted to conduct electric current between the electrode and the second layer.

50. (New) The fuel cell as claimed in claim 49, wherein the conductor is resilient.

51. (New) The fuel cell as claimed in claim 49, wherein the conductor provides a flow pattern close to the at least one of the anode active surface and the cathode active surface.

52. (New) The fuel cell as claimed in claim 49, wherein the conductor comprises a net structure.

53. (New) The fuel cell as claimed in claim 40, wherein the system of flow ducts comprises a coolant distribution system, and wherein a cooling chamber is arranged in the at least one further layer.

54. (New) The fuel cell as claimed in claim 53, wherein the cooling chamber comprises at least partly a through-cutout in the at least one further layer, and wherein the second layer at least partly defines a limiting surface for the cooling chamber.

55. (New) The fuel cell as claimed in claim 53, wherein the cooling chamber is provided with a conductor adapted to conduct electric current through the cooling chamber.

56. (New) The fuel cell as claimed in claim 55, wherein the conductor is resilient

57. (New) The fuel cell as claimed in claim 55, wherein the conductor provides a flow pattern for increased cooling effect relative to a cooling effect with no conductor.

58. (New) The fuel cell as claimed in claim 55, wherein the conductor comprises a net structure.

59. (New) The fuel cell as claimed in claim 30, wherein the distribution arrangement is adapted to distribute a flow incoming to both the anode active surface and the cathode active surface.

60. (New) A fuel cell stack, comprising a plurality of fuel cells, wherein at least one of the fuel cells is constructed according to claim 30.